

E1 (cont)
could not be correctly performed in the wild type T7 RNA polymerase (WT) (top), because the base call did not correctly function, and interval of bases became too narrow (representations of the bases overlap).

In the substitute specification filed on May 20, 2002, please amend the paragraph beginning on page 9, line 1, as follows:

E2
Figures 18A-18D demonstrate improvement of incorporation rate of dye terminator by mutant T7 RNA polymerase F644Y/L665P/F667Y (SEQ ID NO:23) as an electropherogram.

IN THE CLAIMS:

✓ Please cancel Claims 1, 3, 7-10, 24, 25, and 28, without prejudice to or disclaimer of the subject matter contained therein.

Please amend the following claims:

E3
4. (Three Times Amended) An RNA polymerase consisting of a wild type RNA polymerase wherein at least one amino acid present in a loop between helix Y and helix Z and/or a loop between helix Z and helix AA in the wild type RNA polymerase has been replaced with tyrosine to enhance the ability of the wild type polymerase to incorporate 3'-deoxyribonucleotides and derivatives thereof in comparison with the corresponding wild type RNA polymerase.
